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When genetic analyses are performed using the DNA microarray of the present invention, the inspection accuracy is improved. A sample solution is supplied onto a base plate 10 to prepare the DNA microarray 20 which includes a large number of spots 80 containing capture solutions arranged on the base plate 10. The capture solutions are adapted to specifically react with a specimen and provide information about a structure within the specimen. In the microarray 20, the planar configuration of the spots 80 are substantially circular, and a plurality of spots having different spot sizes are formed on the base plate.